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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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10/058,863

01/28/2002

Scott R. Brown

ATA-5

3628

7590

08/09/2004

SQUARE D COMPANY

1415 South Roselle Road

Palatine, IL 60067

EXAMINER

DEBERADINIS, ROBERT L

ART UNIT

PAPER NUMBER

2836

DATE MAILED: 08/09/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

10/058,863

Applicant(s)

BROWN ET AL.

Examiner

Robert DeBeradinis

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 10 May 2004.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-17 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-17 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 28 January 2004 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. _____.
 - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- ☒ Notice of References Cited (PTO-892)
- ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____.
- ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____.
- ☐ Notice of Informal Patent Application (PTO-152)
- ☐ Other: _____.

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DETAILED ACTION

Election/Restrictions

Applicant's election without traverse of Group I, claims 1-17, in the reply filed on 5/10/04, is acknowledged.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-15 are rejected under 35 U.S.C. 102(b) as being anticipated by BROWN 5,960,207.

Regarding claims 1, 7.

BROWN discloses:

a full-wave bridge rectifier (figure 6, 602) providing a rectified DC power output;

a micro-controller (figure 6, 642) for monitoring a component of said rectified DC power, evaluating said monitored component and providing an output signal in response to said evaluation of said monitored component;

an output switch (Qc in combination with DF2) operating in response to said output signal for selectively providing said rectified DC power and a constant average current (column 7, lines 29-31) to an electrical device

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connected electrically in series with said full-wave bridge rectifier and said output switch.

Regarding claims 2, 8.

BROWN discloses wherein said monitored component of the rectified power is the voltage (column 6, lines 31, 32).

Regarding claims 3, 4, 9, 10.

BROWN discloses wherein said monitored component is evaluated with respect to a set point measured in volt-seconds (the volt-second set point is inherent in the operation of the pulse width modulator).

Regarding claims 5, 6, 11, 12.

BROWN discloses wherein said monitoring, evaluating and providing said output signal are concurrent operations initiated by a trigger (inherent functions in a pulse with modulating system column 7, lines 34-37).

Regarding claims 13, 14, 15.

BROWN discloses a power supply includes a power factor correction converter and a controller that disables the power factor correction converter when the power supply is operating in a low power mode (column 3, lines 45-50). Claims 13-15 are inherently included functions for operating said power supply in the low power mode.

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Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 16, 17 are rejected under 35 U.S.C. 103(a) as being unpatentable over BROWN 5,960,207 in view of HOLMQUIST 6,253,112.

Regarding claims 16, 17.

BROWN discloses the circuit of claim 15.

BROWN does not disclose wherein said micro-controller wakes up after said predetermined period of time.

HOLMQUIST discloses a method of and apparatus for constructing a control system and a control system created thereby which is based on multiple finite state machines (abstract, column 5, lines 19-50).

It would have been obvious to one having ordinary skill in the art at the time of this invention to modify BROWN to wake up the micro-controller after a predetermined period of time. The motivation to provide the wake up signal after a predetermined time would be to be able to shut the power supply down completely when the supply is not needed to conserve power in a finite state machine that requires supply voltage periodically for its operation.

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Any inquiry concerning this communication should be directed to Robert L. DeBeradinis whose number is (571) 272-2049. The Examiner can normally be reached Monday-Friday from 8:30 am to 5:00 pm.

If attempts to reach the Examiner by telephone are unsuccessful, the Examiner's supervisor, Brian Sircus, can be reached on (571) 272-2058. The Fax phone number for this Group is (703) 872-9306.

RLD

AUGUST 5, 2004

A handwritten signature in black ink, appearing to read "Robert L. DeBeradinis". The signature is fluid and cursive, with the first name "Robert" being the most prominent.

ROBERT L. DEBERADINIS
PRIMARY EXAMINER